



SEQUENCE LISTING

<110> Kaytes, Paul
Teng, Chi-Hse

<120> Single Nucleotide Polymorphisms Diagnostic for Schizophrenia

<130> 01313.PRO1

<160> 42

<170> PatentIn version 3.0

<210> 1
<211> 3080
<212> DNA
<213> Homo sapiens

<220>
<221> variation
<222> (194)..(194)
<223> polymorphism G or A

<220>
<221> variation
<222> (601)..(601)
<223> polymorphism A or G

<220>
<221> variation
<222> (1029)..(1029)
<223> polymorphism A or G

<220>
<221> variation
<222> (1038)..(1038)
<223> polymorphism C or G

<220>
<221> variation
<222> (1074)..(1074)
<223> polymorphism A or C

<220>
<221> variation
<222> (2106)..(2106)
<223> polymorphism G or A

<220>
<221> variation
<222> (2185)..(2185)
<223> polymorphism G or A

<220>
<221> variation
<222> (2359)..(2359)
<223> polymorphism T or G

<220>
<221> variation
<222> (2663)..(2663)
<223> polymorphism C or G

<220>
<221> variation
<222> (2796)..(2796)
<223> polymorphism A or G

<400> 1
agttaggaatc agatagcgag attgattaaat aataatactt atcactcttt ataaacctgaa 60
aagcaagttc acaaatgtct ctaaagtac agccctgtac tggaaagaga gttgaaccct 120

tcttcaggaa gacaataata taataataac aatattttct tcactctgca gtgtctttac	180
attccagggt tggnaacatt actgaggatt ctcttccat tttccagttt cctgttcatt	240
attcttattt ttttgcactgc ttttagcatc gggagcacaa aggccagtca ccaggaattg	300
caaacaaatg cgtagtcaga gagagagggc tcactgccc tttgtcatgt ggatgcagac	360
acattgcaga tgtgttccc gtaacaatgt ctgagaaga ggactggctt ttccaccagc	420
atctcagaaa tgccgggtgt tctaaacagc atgtcggttct ttaatgctt catcaatata	480
attttatcaa tctcaagtcc ccctcaactat gtattataat aatttctgt tttggtaac	540
caatgcagat ggaaaattga ttcttaacag aagagaaaga gccaaagtatt gatgcttact	600
ntttacaccc tattgtatct ttgtacaaa aacccgggtg gctaagttat gattggaaac	660
aagggatgg ttcaagtcta tgcaactaagg aaaaacaaat ctggccta aaacaataat	720
gataatagaa tttatataag agtagagacc tttttgttag aataacttcc ttagtaatca	780
ctgttggaaa taatcataact agttcacacc gcgcactaca gggattccat cgaggattt	840
tccattgaa ggcatttatt tagctaaaag gacttcatct ttaaggcggt aatgcaggac	900
agataacaga gataaaagata acaggaggtg atcttcagc tccataatta cattccatata	960
cagcgactgt tgacacagaga aactcaaaag gtaaaaataa aatatgaaag gatatttaaa	1020
atcaaaagna attttatnaa attaagagca tgagacattt atcagttgaa acantctcca	1080
ataatcttgc gcaatataat tttgtcaaa ttttatttttgcataaaacat ttgggattta	1140
taataaaaat ggaaacttga aaaattatata tagagataat atctgatcat ttccctctggc	1200
atcctggtga atatgtttt tttccgcag gacactgaa aatcaggaac aatcctgtat	1260
ttttgtat aatcaacaag gacaaaactt ctccatatgt aaataacagc gttatgagca	1320
gcaattcattt cctgctgggt gctgtgcagc tttgtacgc gaaatgtat gggcctgt	1380
tgaaaatccc cttctcgccg ggatcccggg tgattctgtt catatgtttt ggctttgggg	1440
ctgtgctggc tttgtttggaa aacccctgg tgatgatttca aatcctccat ttcaaggcagc	1500
tgcactctcc gaccaattttt ctcgttgctt ctctggcctg cgctgatttca ttgggtgggt	1560
tgactgtat gcccattcagc atggtcagga cgggtggagag ctgctggat tttgggagga	1620
gttttgcattttt tttccacacc tgctgtatg tggcatttttgcatttttctt ctcttcact	1680
tgtgcttcattt ctccatcgac aggtacattt cgggtactga cccctggc tattccatcca	1740
agttcaccgt atctgtgtca ggaatttgca tcagcgtgc ctggatcctg cccctcatgt	1800
acagcgggtgc tttgtttctt acaggtgtct atgacgttgg gctggaggaa ttatctgtat	1860
ccctaaactg tataggaggt tgctcagaccg ttgtaaatca aaactgggtt ttgacagatt	1920
ttctatcctt ctttatacctt accttttattt tgataatttctt gtatggtaac atatttcttgc	1980
tggctagacg acaggcgaaa aagatagaaa atactggtagt caagacagaa tcattccat	2040
agagttacaa agccagagt gcccaggagag agagaaaagc agctaaaacc ctgggggtca	2100
cagtgnatgc atttatgattt tcatgttac catatagcat tgattcatta attgtatgcct	2160
ttatggcattttt tataacccctt gcctntattt atgagatttgc ctgttgggtt gcttattata	2220
actcagccat gaatcctttt atttatgctt tattttaccc atggtttagg aaagcaataaa	2280
aagttattgtt aactggtcag gttttaaaga acagttcagc aaccatgaat ttgtttctg	2340
aacatataata agcagttgna tagacgaagt tcaggatacc tttaaaatca ccaagcgaaa	2400
ttagtttttaaaaatcaagt aagactatga atgaatagca aataaattgc tcttcaaata	2460
aaaaacaaat caatgtttt cagtcttgcattt aagatgtgca ctggcctgtc cttctgtca	2520
aagtatttac ttggctaaaca aatgttaat tccttatttgcattt taaactgctt agagctcagc	2580

atatcccaact ccctgcagac actttttgtc ttttaatcca ttgactcttc cctctgctct 2640
 ggtatttttc ctaaaaatat ttntgtttt tttttttta tttattccct ttcctcttt 2700
 ctttacaaag ctttctactc tttcccagcc tgccaaaaat ttcatttgc aatagccttt 2760
 atcaaattat tggtttcttt tgcttggtt attttncac aggagtcctt ttaggttata 2820
 atttaattta ttcaatcttgc ggagagatct cagggtgtat gggcaattt gcaaatgaag 2880
 acatcatctt gaccaggctg ttgtaattgt caaaccaggta actgtcattc ttgtaattat 2940
 ttcctccccaa aagtgggaa gcagaagcca ctgtacttcc cagaatgtatg ttaggatgat 3000
 tatttggctg ctgttcttgc tattgcacaa aactgtttaa agagttggta tgaatagagc 3060
 cctgtgttac attattcagt 3080

<210> 2
 <211> 345
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (265)..(265)
 <223> Polymorphic Amino Acid Val or Ile

<220>
 <221> VARIANT
 <222> (291)..(291)
 <223> Polymorphic Amino Acid Cys or Tyr

<400> 2

Met	Ser	Ser	Asn	Ser	Ser	Leu	Leu	Val	Ala	Val	Gln	Leu	Cys	Tyr	Ala
1						5			10			15			
Asn	Val	Asn	Gly	Ser	Cys	Val	Lys	Ile	Pro	Phe	Ser	Pro	Gly	Ser	Arg
						20		25				30			
Val	Ile	Leu	Tyr	Ile	Val	Phe	Gly	Phe	Gly	Ala	Val	Leu	Ala	Val	Phe
	35				40				45						
Gly	Asn	Leu	Leu	Val	Met	Ile	Ser	Ile	Leu	His	Phe	Lys	Gln	Leu	His
	50				55				60						
Ser	Pro	Thr	Asn	Phe	Leu	Val	Ala	Ser	Leu	Ala	Cys	Ala	Asp	Phe	Leu
	65			70				75			80				
Val	Gly	Val	Thr	Val	Met	Pro	Phe	Ser	Met	Val	Arg	Thr	Val	Glu	Ser
				85				90			95				
Cys	Trp	Tyr	Phe	Gly	Arg	Ser	Phe	Cys	Thr	Phe	His	Thr	Cys	Cys	Asp
	100				105				110						
Val	Ala	Phe	Cys	Tyr	Ser	Ser	Leu	Phe	His	Leu	Cys	Phe	Ile	Ser	Ile
	115				120				125						
Asp	Arg	Tyr	Ile	Ala	Val	Thr	Asp	Pro	Leu	Val	Tyr	Pro	Thr	Lys	Phe
	130				135				140						
Thr	Val	Ser	Val	Ser	Gly	Ile	Cys	Ile	Ser	Val	Ser	Trp	Ile	Leu	Pro
	145				150				155			160			
Leu	Met	Tyr	Ser	Gly	Ala	Val	Phe	Tyr	Thr	Gly	Val	Tyr	Asp	Asp	Gly
	165				170				175						
Leu	Glu	Glu	Leu	Ser	Asp	Ala	Leu	Asn	Cys	Ile	Gly	Gly	Cys	Gln	Thr
	180				185				190						
Val	Val	Asn	Gln	Asn	Trp	Val	Leu	Thr	Asp	Phe	Leu	Ser	Phe	Phe	Ile
	195				200				205						
Pro	Thr	Phe	Ile	Met	Ile	Ile	Leu	Tyr	Gly	Asn	Ile	Phe	Leu	Val	Ala
	210				215				220						
Arg	Arg	Gln	Ala	Lys	Lys	Ile	Glu	Asn	Thr	Gly	Ser	Lys	Thr	Glu	Ser

225	230	235	240
Ser Ser Glu Ser Tyr Lys Ala Arg Val Ala Arg Arg Glu Arg Lys Ala 245 250 255			
Ala Lys Thr Leu Gly Val Thr Val Xaa Ala Phe Met Ile Ser Trp Leu 260 265 270			
Pro Tyr Ser Ile Asp Ser Leu Ile Asp Ala Phe Met Gly Phe Ile Thr 275 280 285			
Pro Ala Xaa Ile Tyr Glu Ile Cys Cys Trp Cys Ala Tyr Tyr Asn Ser 290 295 300			
Ala Met Asn Pro Leu Ile Tyr Ala Leu Phe Tyr Pro Trp Phe Arg Lys 305 310 315 320			
Ala Ile Lys Val Ile Val Thr Gly Gln Val Leu Lys Asn Ser Ser Ala 325 330 335			
Thr Met Asn Leu Phe Ser Glu His Ile 340 345			
<210> 3 <211> 24 <212> DNA <213> Artificial			
<220> <223> oligonucleotide			
<400> 3 agtaggaatc agatagcgag attg			
24			
<210> 4 <211> 24 <212> DNA <213> Artificial			
<220> <223> oligonucleotide			
<400> 4 actgaataat gtaacacagg gctc			
24			
<210> 5 <211> 20 <212> DNA <213> Artificial			
<220> <223> oligonucleotide			
<400> 5 tgcgtagtca gagagagagg			
20			
<210> 6 <211> 21 <212> DNA <213> Artificial			
<220> <223> oligonucleotide			
<400> 6 agccagcaca gccccaaagc c			
21			
<210> 7 <211> 21 <212> DNA <213> Artificial			
<220> <223> oligonucleotide			
<400> 7 tctatgacga tgggctggag g			
21			

<210> 8	
<211> 21	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 8	
atagacgaag ttcaggatac c	21
<210> 9	
<211> 15	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 9	
cagggttggg aacat	15
<210> 10	
<211> 16	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 10	
agggttggaa acatta	16
<210> 11	
<211> 20	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 11	
atccttacta tttacaccct	20
<210> 12	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 12	
atgcttactg tttacacc	18
<210> 13	
<211> 19	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 13	
tgctcttaat ttgataaaa	19
<210> 14	
<211> 19	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	

<400> 14	
tgctcttaat ttcataaaa	19
<210> 15	
<211> 20	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 15	
tcataaatgc taccactgtg	20
<210> 16	
<211> 22	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 16	
aatcatataat gctatcactg tg	22
<210> 17	
<211> 15	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 17	
ccctgcctgt attta	15
<210> 18	
<211> 16	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 18	
ccctgcccata tattta	16
<210> 19	
<211> 20	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 19	
taaggcgttg tatagacgaa	20
<210> 20	
<211> 20	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 20	
atataaggcag ttggatagac	20
<210> 21	
<211> 30	
<212> DNA	
<213> Artificial	
<220>	

<223> oligonucleotide	
<400> 21	
aatattttct tcactctgca gtgtctttac	30
<210> 22	
<211> 23	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 22	
agggaaactgg aaaatgggaa gag	23
<210> 23	
<211> 23	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 23	
gttggtaacc aatgcagatg gaa	23
<210> 24	
<211> 22	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 24	
gaaccattcc cttgttccca at	22
<210> 25	
<211> 22	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 25	
gcgactgttg cacagagaaa ct	22
<210> 26	
<211> 29	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 26	
tattggagat tgttcaact gataaatgt	29
<210> 27	
<211> 27	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 27	
gacagaatca tcctcagaga gttacaa	27
<210> 28	
<211> 25	
<212> DNA	
<213> Artificial	

<220>			
<223> oligonucleotide			
<400> 28			
taaagcccat aaaggcatca attaa		25	
<210> 29			
<211> 30			
<212> DNA			
<213> Artificial			
<220>			
<223> oligonucleotide			
<400> 29			
gttaccatat agcattgatt cattaattga		30	
<210> 30			
<211> 26			
<212> DNA			
<213> Artificial			
<220>			
<223> oligonucleotide			
<400> 30			
tggctgagtt ataataagca caccaa		26	
<210> 31			
<211> 25			
<212> DNA			
<213> Artificial			
<220>			
<223> oligonucleotide			
<400> 31			
aaagaacagt tcagcaacca tgaat		25	
<210> 32			
<211> 33			
<212> DNA			
<213> Artificial			
<220>			
<223> oligonucleotide			
<400> 32			
atttatttgc tattcattca tagtcttact tga		33	
<210> 33			
<211> 91			
<212> DNA			
<213> Artificial			
<220>			
<223> oligonucleotide			
<400> 33			
gagagacaga atcatcctca gagagttaca acacagtggt agcatttatg attgatccgt		60	
atggttaatt gatgccttta tgggctttat c		91	
<210> 34			
<211> 91			
<212> DNA			
<213> Artificial			
<220>			
<223> oligonucleotide			
<400> 34			
gagagacaga atcatcctca gagagttaca acacagtgtat agcatttatg attgatccgt		60	
atggttaatt gatgccttta tgggctttat c		91	

```

<210> 35
<211> 61
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 35
gagacagaat catcctcaga gagttacaac acagtggtag cattatgat tgatccgtat 60
g 61

<210> 36
<211> 37
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 36
gataaagccc ataaaggcat caattaacat acggatc 37

<210> 37
<211> 61
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 37
gagacagaat catcctcaga gagttacaac acagtgatag cattatgat tgatccgtat 60
g 61

<210> 38
<211> 85
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 38
gagttaccat atagcattga ttcattaatt gaccctgcct gtattnagat ccgtatgtt 60
gtgtgcttat tataactcag ccatc 85

<210> 39
<211> 85
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 39
gagttaccat atagcattga tttcattaatt gaccctgcct atattnagat ccgtatgtt 60
gtgtgcttat tataactcag ccatc 85

<210> 40
<211> 57
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 40
gagttaccat atagcattga ttcattaatt gaccctgcct gtattnagat ccgtatg 57

```

```
<210> 41
<211> 38
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 41
gatggctgag ttataataag cacaccaaca tacggatc 38

<210> 42
<211> 57
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide

<400> 42
gagttaccat atagcattga ttcattaatt gaccctgcct atattttagat ccgtatg 57
```